

FY15 Budget Overview for Cleanup Caucus

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Acting Assistant Secretary Environmental Management March 27, 2014

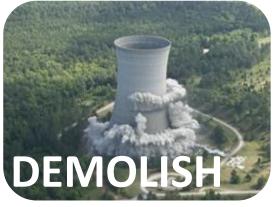
EM Cleanup Program: Remediates the Environmental Legacy of the U.S. Nuclear Weapons Complex

EM is an **operational federal program**, performing a wide variety of tasks to clean up the environmental legacy of the U.S. nuclear weapons complex:





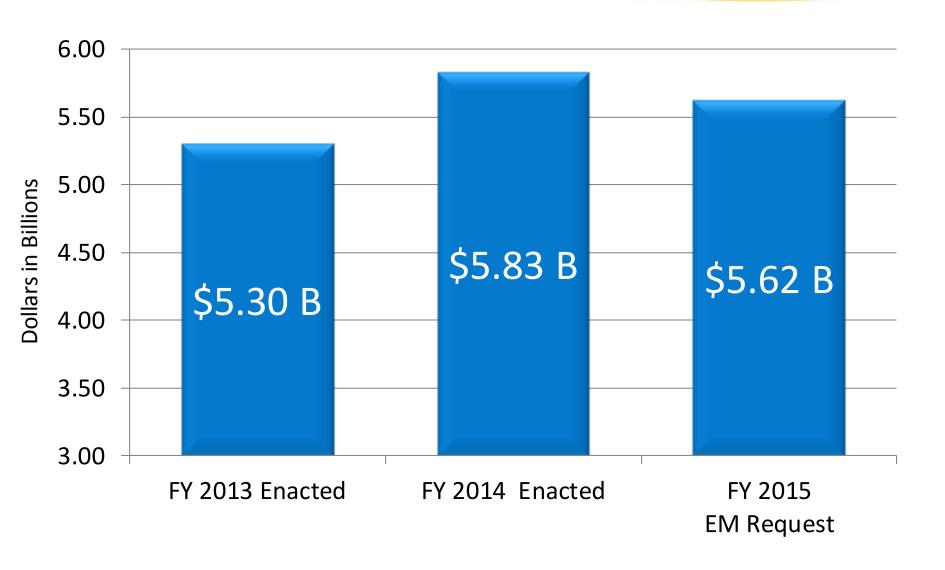








Total EM Funding: FY 2013 – FY 2015

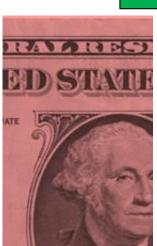


Where Does Each Dollar of Funding Go? Funding by EM Mission Area in FY 2015

Radioactive Tank Waste \$ 2,042M / 36% Special Nuclear Materials and Used Nuclear Fuel** \$ 971M / 17%

Soil and Groundwater \$ 466M / 8%

























*Includes Program Direction, Program Support, Technology Development & Deployment, Post Closure Administration and Community and Regulatory Support **Facility D&D** \$ 992M / 18%

Transuranic & Solid Waste \$ 758M / 13%

Site Services* \$ 392M / 7%

^{**}Includes Safeguards and Security

EM FY 2015 Budget Request

Funding by Appropriation

(dollars in millions)

Appropriation	FY 2013 *Current (\$M)	FY 2014 Enacted (\$M)	FY 2015 Request (\$M)
Defense Environmental Cleanup	4,646	5,000	5,328.
Non-Defense Environmental Cleanup	223	234	226
Uranium Enrichment Decontamination and Decommissioning Fund	448	599	531
Subtotal, Environmental Management	5,318	5,833	6,085
D&D Fund Offset	0	0	-463
Use of Prior Year Funds (Defense & Non-Defense Environmental Cleanup)	-19	-2	0
Total, Environmental Management	5,299	5,830	5,622

Cleanup: 4,865

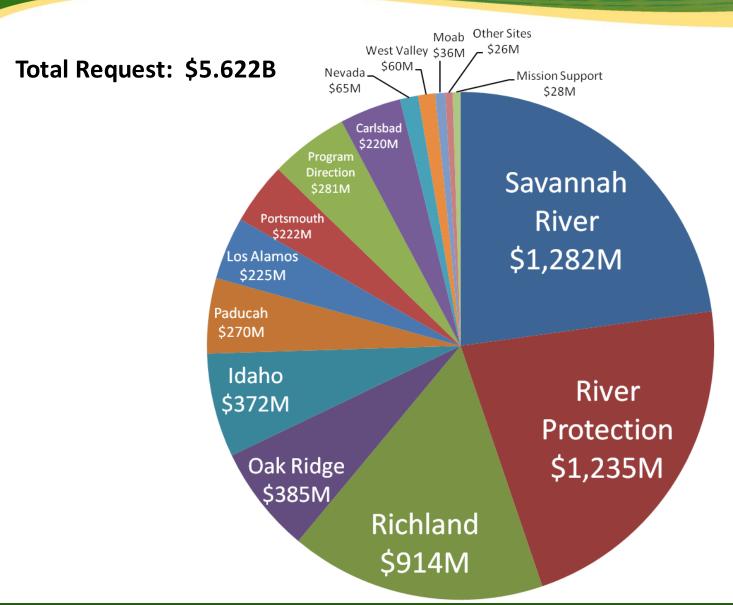
D&D Fund Deposit: 463

Total: 5,328

^{*}FY 2013 reflects a cross-the-board rescission, sequestration and EM reprogramming actions executed throughout the year.

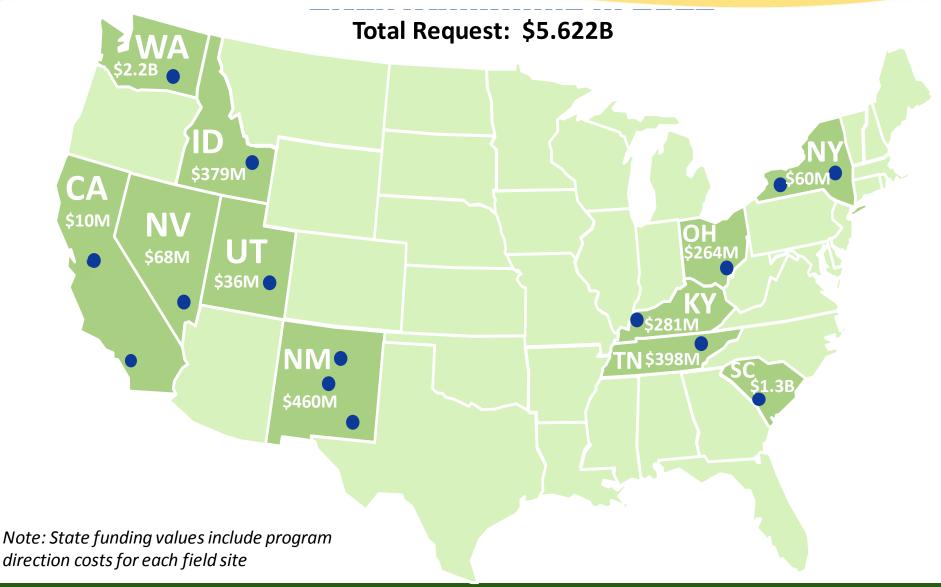
EM FY 2015 Budget Request

Funding by Field Site

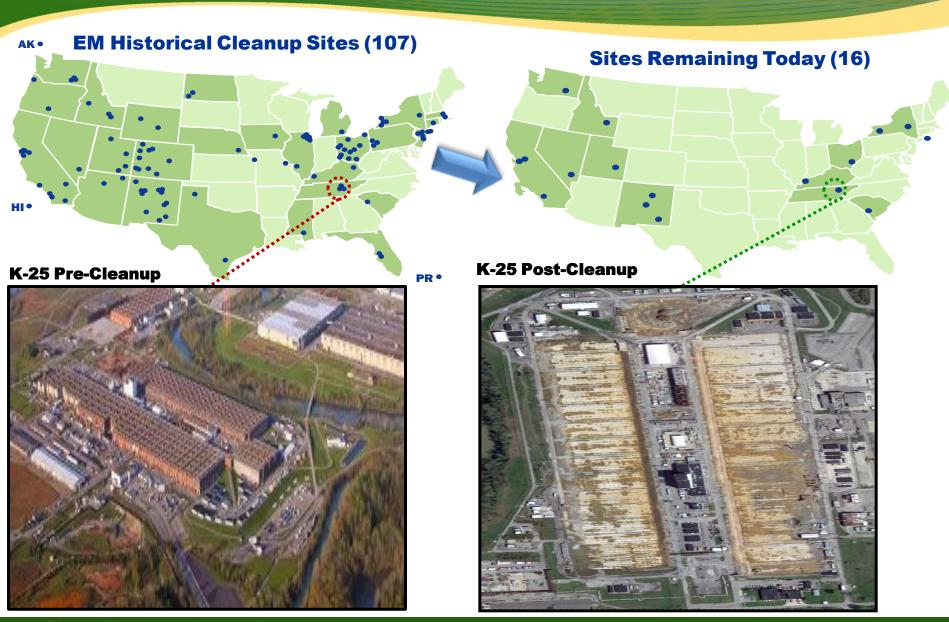


EM FY 2015 Budget Request

Funding by State



EM Has Made Significant Progress Cleaning Up the Environmental Legacy of the Cold War



Radioactive Liquid Waste Treatment: Making Progress in 2015

Key Activities and Accomplishments in FY 2015 (Total Funding: \$2 Billion)

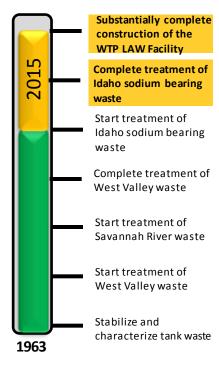






- Complete retrieval and treatment of sodium bearing waste from all 4 remaining tanks at Idaho.
- Package 120 130 canisters of high level waste at Savannah River, achieving over 50% overall completion of the site's high level waste mission.
- Consistent with the Department's revised option for the Waste Treatment and Immobilization Plant (WTP), which is designed to move the WTP toward immobilization of waste as soon as practicable while resolution of technical issues continues, the FY 2015 budget includes support for analysis and preliminary design of a Low Activity Waste (LAW) Pretreatment System.

Cleanup Progress

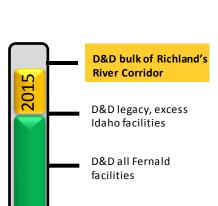


Cleanout and Demolition of Contaminated Facilities: Finishing Up and Moving Out in 2015

Key Activities and Accomplishments in FY 2015 (Total Funding: \$992 Million)



- Finish up major facility cleanout and demolition projects:
 - Complete bulk of cleanup of Richland's River Corridor, which contained over 500 facilities. The
 324 Facility will be the primary River Corridor facility remaining to be completed after 2015.
 - Proceed with cleanout and demolition of the last two major facilities in Oak Ridge's East Tennessee Technology Park (K-27 and K-31). The area previously contained nearly 600 facilities.
 - o Complete demolition of the C-410 Complex at Paducah, which contained 15 facilities
- Prepare to move out on a new round of facility cleanout and demolition:
 - Complete transition of the massive Paducah Gaseous Diffusion Plant to DOE and initiate critical facility cleanout actions.
 - Complete equipment removal from one of the three main facilities of the Portsmouth Gaseous Diffusion Plant, which was transferred to DOE in 2011.



Cleanup Progress

1996

facilities

D&D all Rocky Flats

Nuclear Materials and Fuel: Moving From Interim Safe Storage to Final Disposition in 2015

Key Activities and Accomplishments in FY 2015 (Total Funding: \$971 Million)

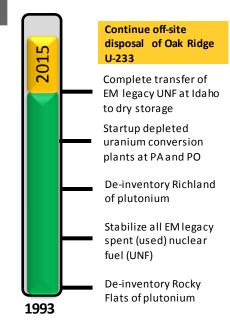




K-East Spent (Used) Nuclear Fuel Basins (WA)

- At the Savannah River Site, disposition plutonium via preparation for conversion to Mixed Oxide fuel and direct off-site disposal.
- Also at the Savannah River Site, continue campaign to process certain used nuclear fuel from the High Flux Isotope and Material Test Reactors.
- Continue disposition of uranium-233 currently stored at Oak Ridge.
- At Richland, continue work required to retrieve and package spent (used) nuclear fuel sludge from the K-West Basin.
- At Paducah and Portsmouth, convert and package over 30,000 tons of depleted uranium for final disposition, reaching over 10% overall completion of the mission.

Cleanup Progress



Salt Haul Truck Fire (NM)

Transuranic (TRU) Waste: Approaching Completion of Multiple Sites in 2015

Waste Shipment (WCS)

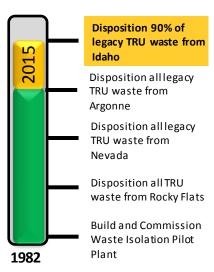
Key Activities and Accomplishments in FY 2015 (Total Funding: \$758 Million)

Cleanup Progress

 Neither incident has led to a risk to public or workers at the site based on our current understanding. DOE is addressing management issues. DOE is still committed to meeting its obligations.

Waste Retrieval (ID)

- Despite interruption in normal WIPP operations, transuranic disposition progress continues.
- Idaho's Advanced Mixed Waste Treatment Plant will continue to process transuranic waste through the plant at its normal operating rate.
- The Department continues to evaluate potential alternatives for the disposition and storage of transuranic waste located at other generator sites.



Soil and Groundwater Remediation: Using New and **Existing Systems to Address Risk in 2015**

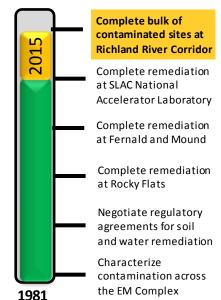
Key Activities and Accomplishments in FY 2015 (Total Funding: \$466 Million)





Installation of Treatment System (KY)

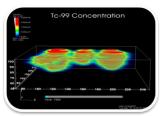
- Complete remediation of the bulk of the roughly 1,200 contaminated release sites in Richland's River Corridor. After 2015, 618-10 and 618-11 Burial Grounds and the waste site beneath 324 Building will be the only major remaining release sites.
- Operate groundwater remediation systems at multiple sites, including 39 systems at the Savannah River Site alone.
- At Oak Ridge, complete preliminary design of a new facility to treat mercury contamination in surface water.
- At Los Alamos, conduct design on a proposed new facility to treat chromium contamination in groundwater.
- At the Nevada National Security Site, complete closure activities for over 20 contaminated soil sites.



Cleanup Progress

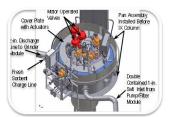
Site Services in FY 2015

Perform technology development and deployment to resolve critical gaps in EM's capabilities (\$13 million)



Groundwater modeling

Mercury remediation





Separations technologies

Maximizing waste loading in glass

Support a federal workforce of 1,500 FTEs to oversee the cleanup effort (\$281 million)



Provide other services, including strategic bulk purchasing of commodities, proactive safety analysis and support for Minority-Serving Institutions.

Conclusion





- EM's FY 2015 budget supports clear, discrete progress in the cleanup of the environmental legacy of the Cold War.
- In particular, the budget will allow EM to:
 - 1. Make progress in the high level waste treatment mission
 - 2. Complete major facility cleanout and demolition projects and initiate preparations for new work
 - 3. Move closer to completion of the transuranic waste disposition mission
 - 4. Continue progress in nuclear materials management and soil and groundwater remediation